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#### Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

## Listing of Claims:

1. (Currently amended) A system for washing, disinfecting, or sterilizing a medical or dental instrument or device, the system comprising:

at least a first station configured to house the object; medical or dental instrument or device, the first station comprising:

a first holder at the station, the <u>first</u> holder being adapted and configured for supporting the object <u>medical or dental instrument or device</u>;

a first sonicator comprising an ultrasonic irrigated probe at the station and located adjacent a position taken by the ebject medical or dental instrument or device in the first holder and wherein the ultrasonic irrigated probe is adapted and configured to impact the medical or dental instrument or device object in the first station with ultrasonic energy and to provide ultrasonic energy from a point at the first station; the irrigated probe and is movable for manual sonic cleaning of the dirty objects medical or dental instrument or device; and

<u>a first</u> liquid transporter adapted and configured to circulate at the station and spray around and against the object medical or dental instrument or device a wash composition, an antimicrobial composition comprising peroxycarboxylic acid at 20 to 25 degrees C and a pH of 5 to 7, a rinse composition, or to circulate and spray a plurality of these compositions; and

emitter adapted and configured to impact the object with light or microwave-energy either during or after circulating the antimicrobial-composition;

sterilant system comprising an injector configured to add sterilant comprising chlorine dioxide; the injector comprising pressure release valve configured to release at the station gaseous sterilant from pressurized vessel; and vent adapted and configured to evacuate sterilant gas from the station; and

the system further comprising a dryer adapted and configured to dry the object medical or dental instrument or device in the presence of a sterilant, wherein the dryer comprises:

a sterilant system comprising:

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an injector configured to add sterilant comprising chlorine dioxide; the injector comprising a pressure release valve configured to release the gaseous sterilant from pressurized vessel; and a vent adapted and configured to evacuate the sterilant gas from the dryer;

wherein the medial or dental instrument or device comprises diagnostic instruments, trays, pans, holders, racks, forceps, scissors, shears, saws (e.g. bone saws and their blades), hemostats, knives, chisels, rongeurs, files, nippers, drills, drill bits, rasps, burrs, spreaders, breakers, elevators, clamps, needle holders, carriers, clips, hooks, gouges, curettes, retractors, straightener, punches, extractors, scoops, keratomes, spatulas, expressors, trocars, dilators, cages, glassware, tubing, catheters, cannulas, plugs, stents, endoscopes (e.g., noninvasive flexible and rigid fiber optic endoscopes), endotracheal tubes, anesthesia breathing circuits, cytoscopes, arthoscopes and related equipment, and the like, or combinations thereof.

#### 2-4. (Canceled)

- 5. (Currently Amended) The system of claim 1, wherein the <u>first</u> sonicator is adapted and configured to provide ultrasonic energy throughout <u>fluid</u> liquid at the first station.
- 6. (Currently Amended) The system of claim 5, wherein the first station further comprising comprises a second sonicator positioned on the exterior of the first station. adapted and configured to provide ultrasonic energy from probe outside the first station.
  - 7. (Canceled)
- 8. (Currently Amended) The system of claim 6, further comprising holder adapted and configured to support the object adjacent wherein the second sonicator probe is positioned near the first holder.
  - 9. (Canceled)

10. (Currently Amended) The system of claim 1, wherein the <u>first</u> liquid transporter comprises <u>a</u> pump and <u>a</u> valve adapted and configured to circulate <u>fluid</u> <u>liquid</u> at the first station and around and against the <u>object medical or dental instrument or device</u>, to add <u>fluid liquid</u> to the first station, and to remove <u>fluid liquid</u> from the first station.

11-13. (Canceled)

14. (Currently Amended) The system of claim 11, wherein the <u>first</u> sonicator applies ultrasonic energy throughout the <u>a</u> wash composition.

15-17. (Canceled)

- 18. (Currently Amended) The system of claim 1, wherein the <u>first</u> liquid transporter comprises <u>a first</u> sprayer adapted and configured to apply to the <u>object medical or dental</u> <u>instrument or device the an</u> antimicrobial composition, the <u>a rinse composition</u>, or a plurality of these compositions.
- 19. (Currently Amended) The system of claim 18, wherein the first station comprises a first spray chamber.
- 20. (Currently Amended) The system of claim 1, wherein the <u>first</u> liquid transporter is adapted and configured to sequentially circulate the <u>a</u> wash composition, the <u>an</u> antimicrobial composition, and the <u>a</u> rinse composition.
- 21. (Currently Amended) The system of claim 1, wherein the liquid transporter is adapted and configured to circulate the <u>a</u> wash composition, the <u>an</u> antimicrobial composition, <u>a</u> first rinse composition, <u>a</u> second rinse composition, or to circulate a plurality of these compositions.

- 22. (Currently Amended) The system of claim 21, wherein the liquid transporter is adapted and configured to sequentially circulate, in this order, the <u>a</u> wash composition, the <u>a</u> first rinse composition, the <u>a</u> antimicrobial composition, and the <u>a</u> second rinse composition.
- 23. (Currently Amended) The system of claim 1, further comprising <u>a</u> dispenser adapted and configured to add <u>a</u> wash concentrate, <u>an</u> antimicrobial concentrate, <u>a</u> rinse concentrate, or to add a plurality of these concentrates.
- 24. (Currently Amended) The system of claim 1, wherein the dryer is adapted and configured to dry the object medical or dental instrument or device at the first station.
- 25. (Currently Amended) The system of claim 1, wherein the dryer comprises a blower adapted and configured to circulate heated gas at the first station.

26-28. (Canceled)

- 29. (Currently Amended) The system of claim 1, further comprising a conveyor adapted and configured to transport the object medical or dental instrument or device through the system the first station and the dryer.
  - 30. (Canceled)
- 31. (Currently amended) The system of claim 1, further comprising <u>a</u> second station, wherein:

the first station comprises the sonicator and is adapted and configured to circulate at the first station and spray around and against the object the wash composition, the antimicrobial composition, the rinse composition, or a plurality of these compositions; and

the second station comprising comprises a second holder, a third sonicator, a second liquid transmitter transporter, sterilant-system, a first emitter, dryer, or a combination thereof and is configured to circulate at the second station and spray around and against the object medical or

dental instrument or device the an antimicrobial composition, the a rinse composition, or a plurality of these compositions; or a combination thereof.

- 32. (Canceled)
- 33. (Currently Amended) The system of claim 32, wherein the second station comprises a second spray chamber.
  - 34-35. (Canceled)
- 36. (Currently Amended) The system of claim 31, wherein the second station is adapted and configured to circulate around and spray against the object medical or dental instrument or device the a rinse composition.
- 37. (Currently Amended) The system of claim 36, wherein the first station is adapted and configured to circulate around and spray against the <u>object medical or dental instrument or device the a</u> wash composition, the <u>an</u> antimicrobial composition, and the <u>a</u> first rinse composition; and the second station is adapted and configured to circulate around and spray against the <u>object medical or dental instrument or device</u> a second rinse composition.
- 38. (Currently Amended) The system of claim 31, wherein the second station is adapted and configured to circulate around and spray against the object medical or dental instrument or device the an antimicrobial composition and the a rinse composition.
- 39. (Currently Amended) The system of claim 38, wherein the first station is adapted and configured to circulate around and spray against the <u>object medical or dental instrument or device the a</u> wash composition and <u>a</u> first rinse composition; and the second station is adapted and configured to circulate around and spray against the <u>object medical or dental instrument or device the an</u> antimicrobial composition and <u>a</u> second rinse composition.

- 40. (Original) The system of claim 31, wherein the second station comprises the dryer.
  - 41. (Canceled)
- 42. (Currently amended) The system of claim 31, further comprising a third station, wherein:

the first station comprises the conicator and is adapted and configured to circulate at the first station and spray around and against the object the wash composition, the antimicrobial composition, or a plurality of these compositions;

the second-station is adapted and configured to circulate at the second station and spray around and against the object the antimicrobial composition, the rinse composition, or a plurality of these compositions; and

the third station eomprising comprises a third holder, a fourth sonicator, a third liquid transmitter transporter, sterilant system, a second emitter, dryer, or a combination thereof and being configured to circulate at the third station and spray around and against the object medical or dental instrument or device the an antimicrobial composition, the a rinse composition, or a plurality of these compositions; or a combination thereof.

- 43. (Original) The system of claim 42, wherein the third station comprises the dryer.
- 44. (Canceled)
- 45. (Currently Amended) The system of claim 42, wherein the third station is adapted and configured to circulate around and spray against the object medical or dental instrument or device the a rinse composition.
- 46. (Currently Amended) The system of claim 45, wherein the third liquid transporter transport system comprises a third sprayer at the third station and adapted and configured to apply the a rinse composition to the object medical or dental instrument or device.

47. (Currently Amended) The system of claim 46, wherein the third station comprises a third spray chamber.

48-54. (Canceled)

55. (Currently amended) The system of claim 42, further comprising a fourth station, wherein:

the first station comprises the conicator and is adapted and configured to circulate at the first station and around and spray against the object the wash composition, the antimicrobial composition, or a plurality of these compositions;

the second station is adapted and configured to circulate at the second station and around and spray against the object the antimicrobial composition, the rinse composition, or a plurality of these compositions;

the third station is adapted and configured to circulate at the third station and around and spray against the object the antimicrobial composition, the rinse composition, or a plurality of these compositions; and

the fourth station comprising comprises a fourth holder, a fifth sonicator, a fourth liquid transmitter transporter, sterilant system, a third emitter, dryer, or a combination thereof and being configured to circulate at the second fourth station and spray around and against the object medical or dental instrument or device the an antimicrobial composition, the a rinse composition, or a plurality of these compositions; or a combination thereof.

- 56. (Original) The system of claim 55, wherein the fourth station comprises the dryer.
  - 57. (Canceled)
- 58. (Currently Amended) The system of claim 55, wherein the fourth station is adapted and configured to circulate around and spray against the object medical or dental instrument or device the a rinse composition.

- 59. (Currently Amended) The system of claim 58, wherein the liquid transport system the fourth liquid transporter comprises fourth sprayer in the fourth station and adapted and configured to apply the a rinse composition to the object medical or dental instrument or device.
- 60. (Original) The system of claim 59, wherein the fourth station comprises a fourth spray chamber.

61-66. (Canceled)

67. (Currently amended) The system of claim 55, further comprising a fifth station, wherein:

the first station comprises the someater and is adapted and configured to circulate at the first station and around and spray against the object the wash composition, the antimicrobial composition, or a plurality of these compositions;

the second station is adapted and configured to circulate at the second station and around and spray against the object the antimicrobial composition; the rinse composition, or a plurality of these compositions;

the third station is adapted and configured to circulate at the third station and around and spray against the object the antimicrobial composition, the rince composition, or a plurality of these compositions;

the fourth station is adapted and configured to circulate at the fourth-station and around and spray against the object the antimicrobial composition, the rinse composition, or a plurality of these compositions;

the fifth station comprising comprises a fifth holder, a sixth sonicator, a fifth liquid transmitter transporter, sterilant system, a fourth emitter, dryer, or a combination thereof and being configured to circulate at the second fifth station and spray around and against the object medical or dental instrument or device the an antimicrobial composition, the a rinse composition, or a plurality of these compositions; or a combination thereof.

68. (Original) The system of claim 67, wherein the fifth station comprises the dryer.

## 69. (Canceled)

- 70. (Currently Amended) The system of claim 67, wherein the fifth station is adapted and configured to circulate around and spray against the object medical or dental instrument or device the a rinse composition.
- 71. (Currently Amended) The system of claim 70, wherein the <u>fifth</u> liquid <del>transport</del> system transporter comprises a <u>fifth</u> sprayer in the fifth station and <u>is</u> adapted and configured to apply the <u>a</u> rinse composition to the object medical or dental instrument or device.
- 72. (Currently Amended) The system of claim 71, wherein the fifth station comprises a fifth spray chamber.

### 73-74. (Canceled)

and

75. (Currently Amended) The system of claim 67, wherein:

the first station comprises the <u>first</u> sonicator and is adapted and configured to circulate the <u>a</u> wash composition;

the second station is adapted and configured to circulate a first rinse composition; the third station is adapted and configured to circulate the an antimicrobial composition;

the fourth station is adapted and configured to circulate a second rinse composition.

76. (Currently amended) The system of claim 67, further comprising <u>a</u> sixth station, wherein:

the first station comprises the sonicator and is adapted and configured to circulate at the first station and around and spray against the object the wash composition, the antimicrobial composition, or a plurality of these compositions;

the second station is adapted and configured to circulate at the second station and around and against the object the antimicrobial composition, the rinse composition, or a plurality of these compositions;

the third station is adapted and configured to circulate at the third station and around and spray against the object the antimicrobial composition, the rinse composition, or a plurality of these compositions;

the fourth station is adapted and configured to circulate at the fourth station and around and spray against the object the antimicrobial composition, the rinse composition, or a plurality of these compositions;

the fifth station is adapted and configured to circulate at the fifth station and around and spray against the object the rinse composition, the fifth station comprises the dryer, the fifth station comprises the apparatus to add gaseous sterilant, or a combination thereof; and

the sixth station eomprising a sixth holder, a seventh sonicator, a sixth liquid transmitter transporter, sterilant system, a fifth emitter, dryer, or a combination thereof.

77-118. (Canceled)